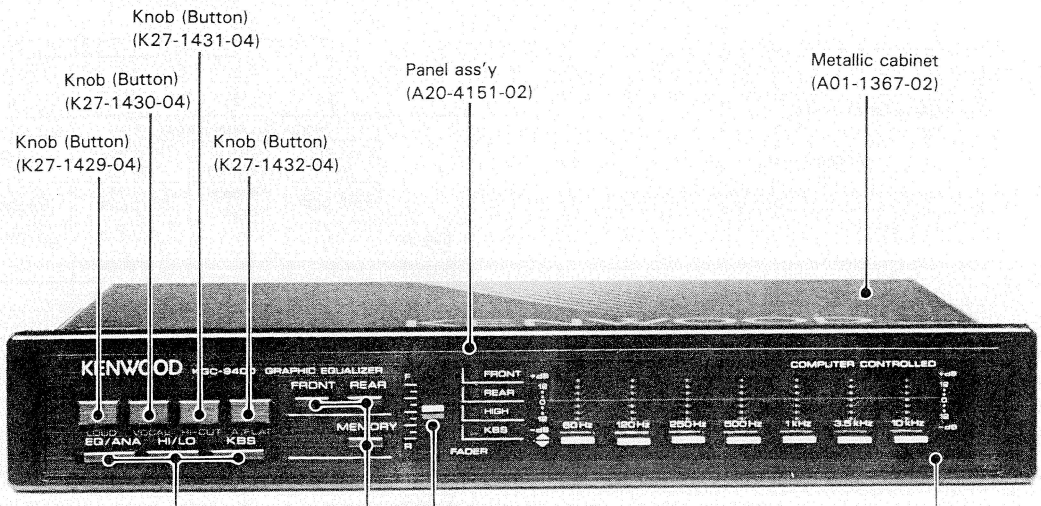
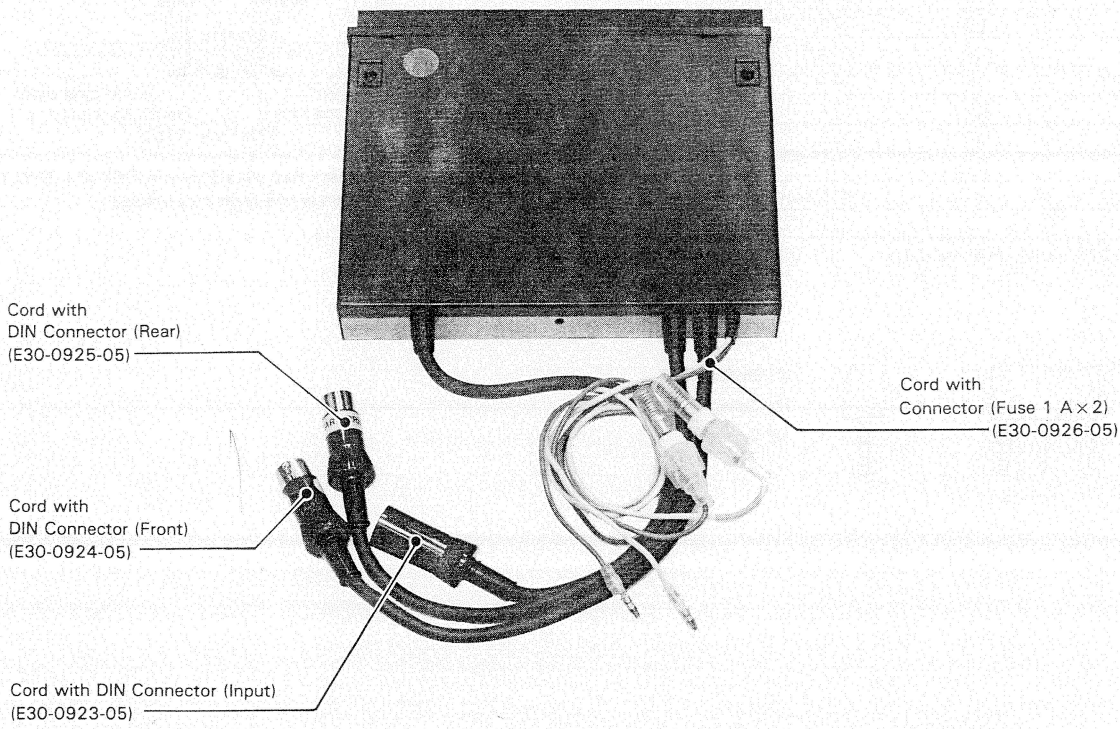
SERVICE MANUAL

KENWOOD KGC-9400

GRAPHIC EQUALIZER



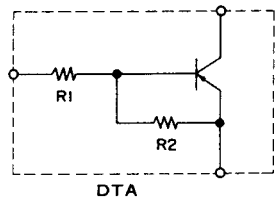


* Refer to Parts List on page 8.

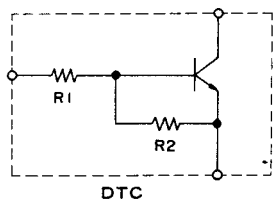
PARTS USED

1. Digital transistors

A digital transistor which incorporates resistors in its package is used. Although its appearance is similar to that of a conventional transistor, the internal circuitry is as shown below. When replacing it, pay attention to the circuitry rather than the appearance.



DTA

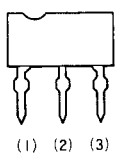


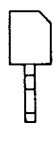
DTC

• **List of types according to resistances**

Resistance		Package
R_1 (kΩ)	R_2 (kΩ)	
4.7	4.7	DTA/DTC143 F
10	10	DTA/DTC114 F
22	22	DTA/DTC124 F
47	47	DTA/DTC144 F
4.7	10	DTA/DTC143X F
10	47	DTA/DTC114Y F
22	47	DTA/DTC124X F
47	22	DTA/DTC144W F
4.7	—	DTC143T F
10	—	DTA114T F

Note: (1) DTA series; PNP transistor (2) DTC series; NPN transistor

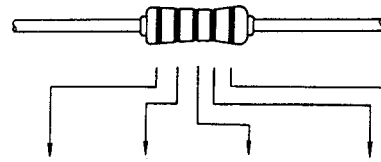




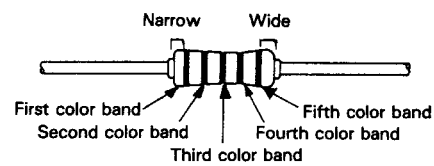
(1) Emitter/GND
(2) Collector/OUT
(3) Base/IN

2. Capacitor color coding

An axial type capacitor whose shape is similar to that of a resistor is used. For capacitance, refer to the table below.



	Nominal capacitance (pF)			Fourth color band	Fifth color band	
	First color band	Second color band	Third color band			
	First digit	Second digit	Multiplier	Tolerance	Temperature coefficient	
Black	0	0	$\times 10^{0}$ (1)	±20% (M)	C	
Brown	1	1	$\times 10^{1}$ (10)			Y
Red	2	2	$\times 10^{2}$ (100)			
Orange	3	3	$\times 10^{3}$ (1000)			
Yellow	4	4			R	
Green	5	5				
Blue	6	6				
Purple	7	7			U	
Gray	8	8		±30% (N)		X
White	9	9			SL	
Gold			$\times 10^{-1}$ (0.1)	± 5% (J)		
Silver			$\times 10^{-2}$(0.01)	±10% (K)		B

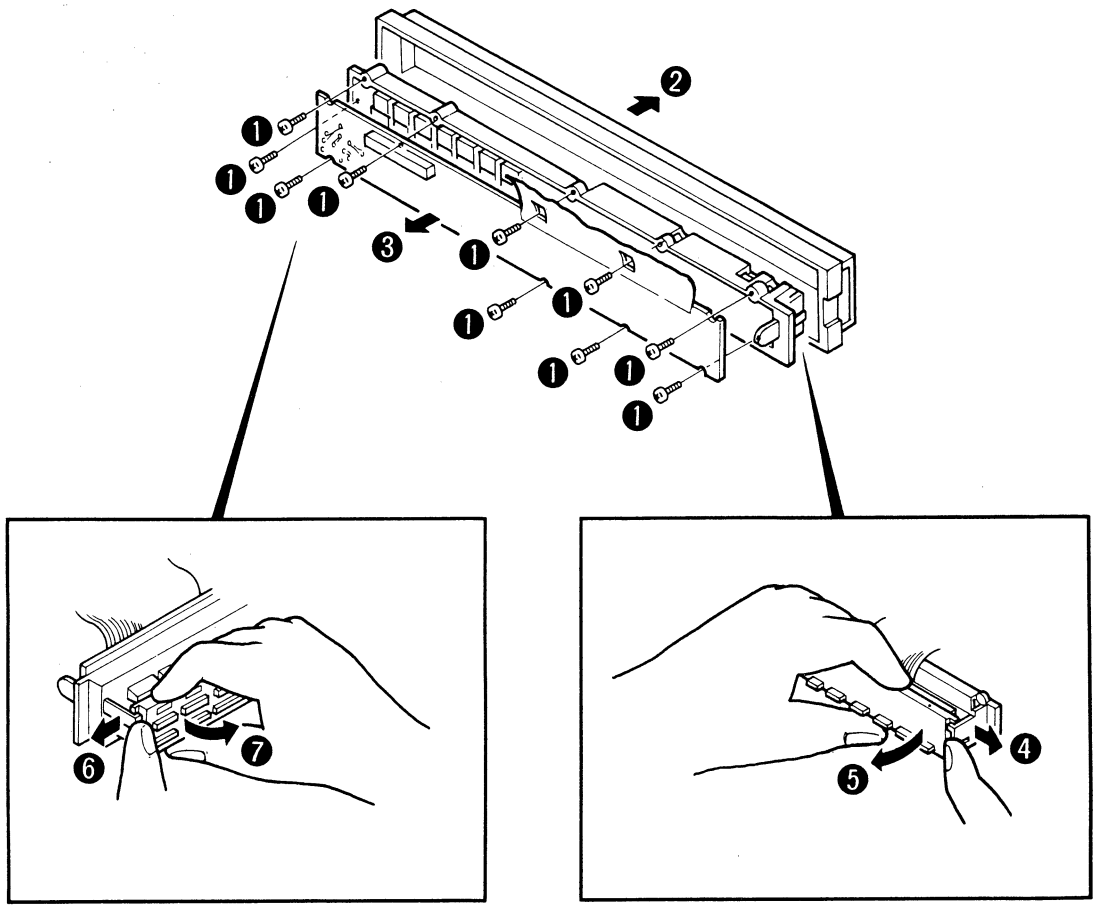


Example: Brwon Black Red Black Brown ⇒ 1000 pF ± 20% Y
Color of body and resistance voltage
Pink: 16 V
Green: 50 V

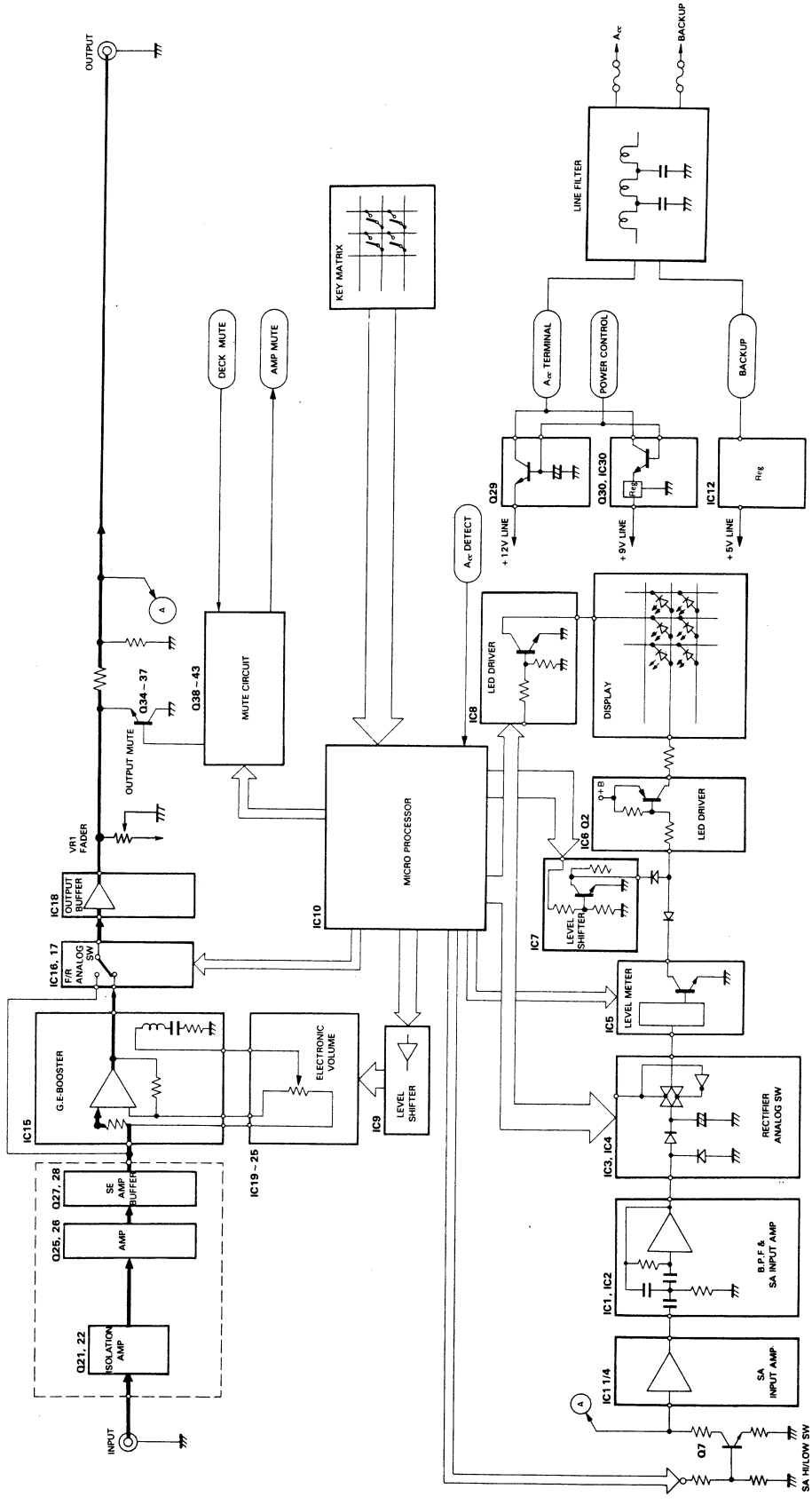
DISASSEMBLY FOR REPAIR

1. Remove 10 screws to remove the front panel and the pc board (❶ to ❸).
2. To remove the front glass release the hook from the front glass and pull frontward (❹, ❺). Removal of LED ass'y (GE display) is done in the same manner. **In this case, be careful not to touch the display portion directly. It may cause damages to the gold bonding wires.**
3. To remove the lighting board, release the hook from the lighting board. Knobs can be released from their hooks by twisting the knobs (❻, ❼).

Note: During assembly, make sure the switches are not kept pressed due to the improper placement of knobs.

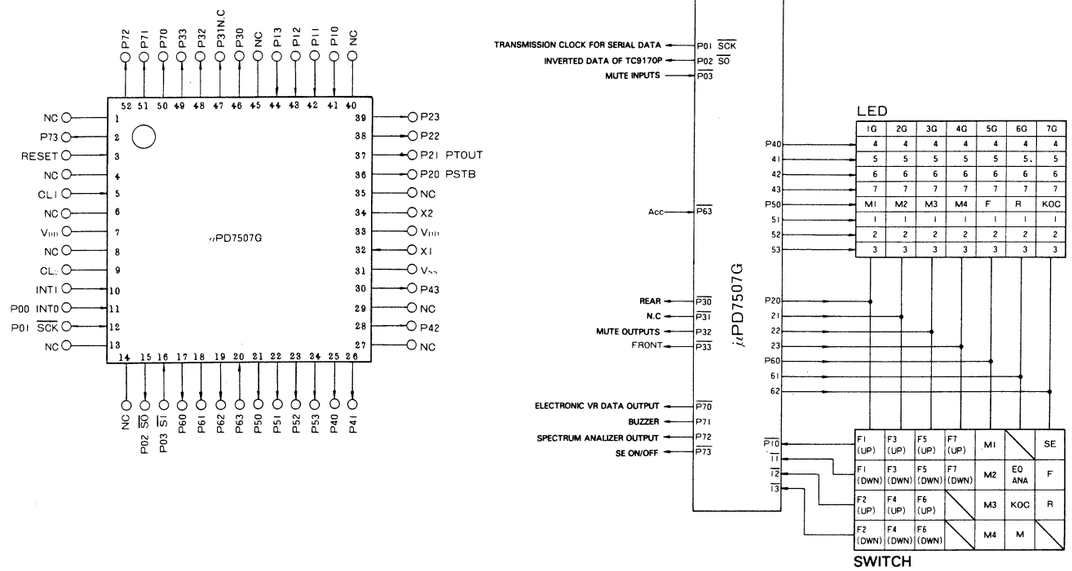


BLOCK DIAGRAM



CIRCUIT DESCRIPTION

PIN CONFIGULATION AND DESCRIPTION


P72 P71 P70 P33 P32 P31 N.C P30 NC P13 P12 P11 P10 NC
52 51 50 49 48 47 46 45 44 43 42 41 40
NC 1
P73 2
RESET 3
NC 4
CL1 5
NC 6
VDD 7
NC 8
CL2 9
INT1 10
P00 INT0 11
P01 SCK 12
NC 13
39 P23
38 P22
37 P21 PTOUT
36 P20 PSTB
35 NC
34 X2
33 VDD
32 X1
31 VSS
30 P43
29 NC
28 P42
27 NC
14 15 16 17 18 19 20 21 22 23 24 25 26
NC P02 SO P03 SI P60 P61 P62 P63 P50 P51 P52 P53 P40 P41
μPD7507G
TRANSMISSION CLOCK FOR SERIAL DATA P01 SCK
INVERTED DATA OF TC9170P P02 SO
MUTE INPUTS P03
Acc P63
REAR P30
N.C P31
MUTE OUTPUTS P32
FRONT P33
ELECTRONIC VR DATA OUTPUT P70
BUZZER P71
SPECTRUM ANALIZER OUTPUT P72
SE ON/OFF P73
LED
1G 2G 3G 4G 5G 6G 7G
P40 4 4 4 4 4 4 4
41 5 5 5 5 5 5 5
42 6 6 6 6 6 6 6
43 7 7 7 7 7 7 7
P50 M1 M2 M3 M4 F R KOC
51 1 1 1 1 1 1 1
52 2 2 2 2 2 2 2
53 3 3 3 3 3 3 3
P20
21
22
23
P60
61
62
SWITCH
P10 F1 (UP) F3 (UP) F5 (UP) F7 (UP) M1 SE
I1 F1 (DWN) F3 (DWN) F5 (DWN) F7 (DWN) M2 EQ ANA F
I2 F2 (UP) F4 (UP) F6 (UP) M3 KOC R
I3 F2 (DWN) F4 (DWN) F6 (DWN) M4 M

PORT NAME	I/O PORT	Active H/L	Description
$\overline{SCK}$	O		Transmission clock for serial data
$S\overline{O}$	O	L	Inverted data of TC9170's data
P10	I	L	F1-UP, F3-UP, F5-UP,F7-UP, M1 signals input port
P11	I	L	FD1-DWN, F3-DWN, F5-DWN, F7-DWN, M2, EQ/ANA signals input port
P12	I	L	F2-UP, F4-UP, F6-UP, M3, KOC signals input port
P13	I	L	F2-DWN, F4-DWN, F6-DWN, M4, M signals input port
P20—P23	O	H	Strobe signal of display and key
P30	O	L	ON/OFF signal of Rear output
P31			N.C
P32	O	L	ON/OFF signal of Mute output
P33	O	L	ON/OFF signal of Front output
P40—P43	O	H	Segment signal
P50—P53	O	H	Segment signal
P60—P62	O	H	Strobe signal of the display & key
P63	I	L	ACC ON/OFF input port
P70	O	L	Strobe signal
P71	O	H	Buzzer output signal
P72	O	H	ANA output signal
P73	O	L	SE ON/OFF signal
P03	I	L	MUTE ON input port

CIRCUIT DESCRIPTION

Equalization curve

Equalization curve preset memory

It is too much trouble to adjust the equalization curve every time the type of music is changed. For convenience, the KGC-9400 has a preset memory function. Therefore, if the desired equalization curve is memorized beforehand, one-touch operation allows the unit to be set to the sound best suited for a particular type of music.

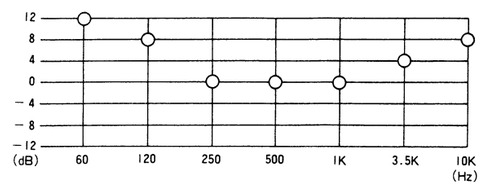
1. By operating an equalizer lever for each frequency band, the equalization curve is preset.
2. When the memory switch is depressed, the memory indicator lights for about 8 seconds.
3. If the desired preset key, 1 to 4 is depressed while the memory indicator is lit, the equalization curve is stored to the key.

Kenwood built-in sound (KBS)

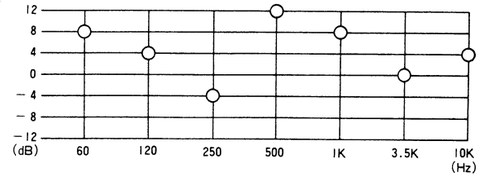
Kenwood built-in sound (KBS) refers to the four types of equalization curve stored in the microprocessor of this unit. These curves are preset beforehand as shown, according to types of music, and can be recalled as desired by using preset keys 1 to 4.

KBS Curve

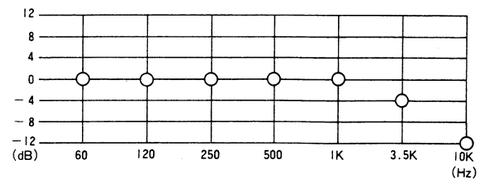
1. LOUD



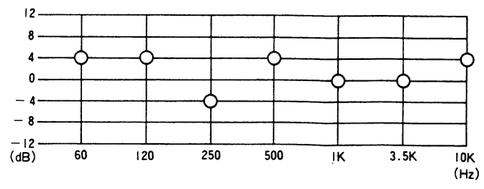
2. VOCAL



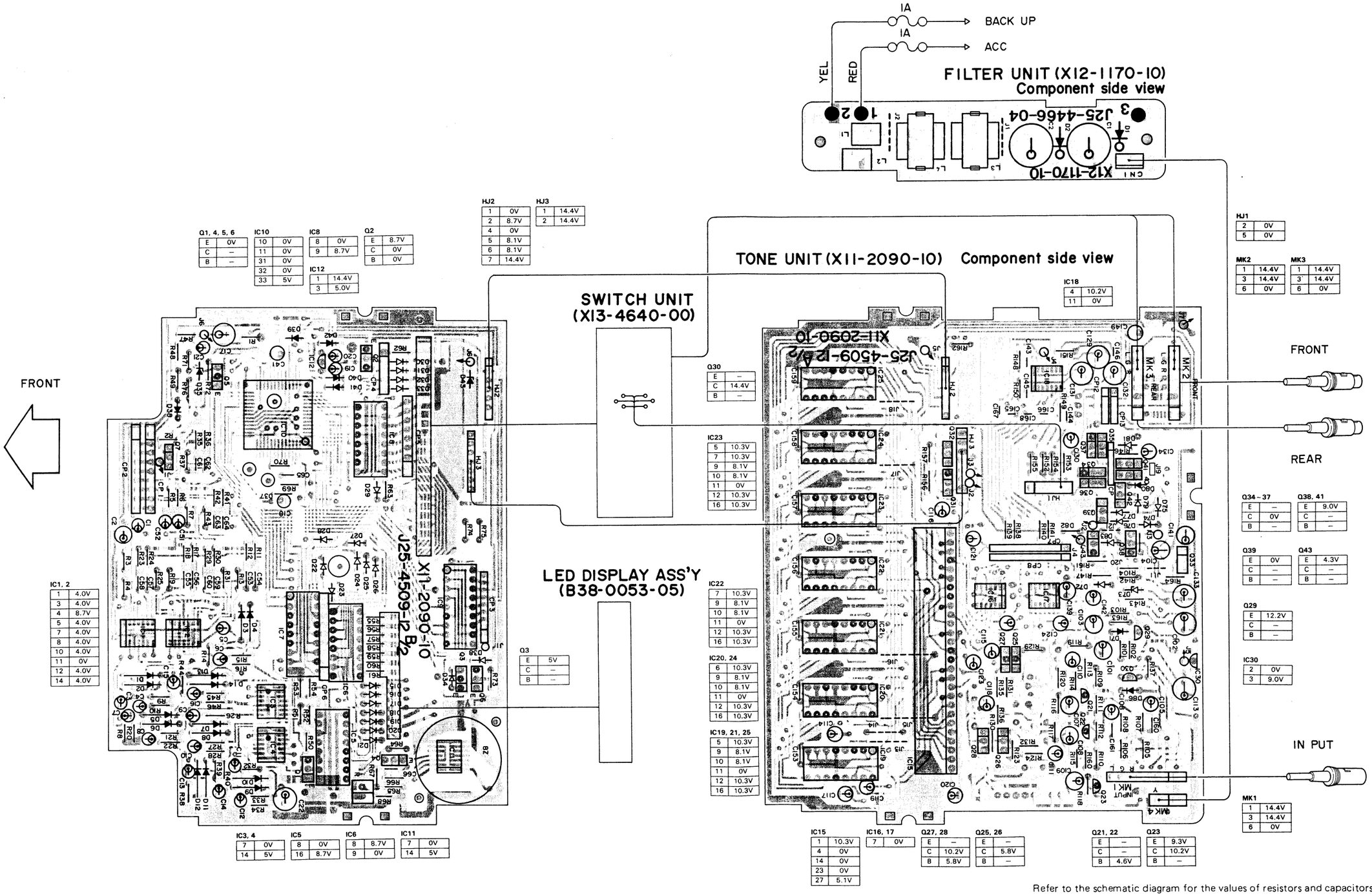
3. HI-CUT



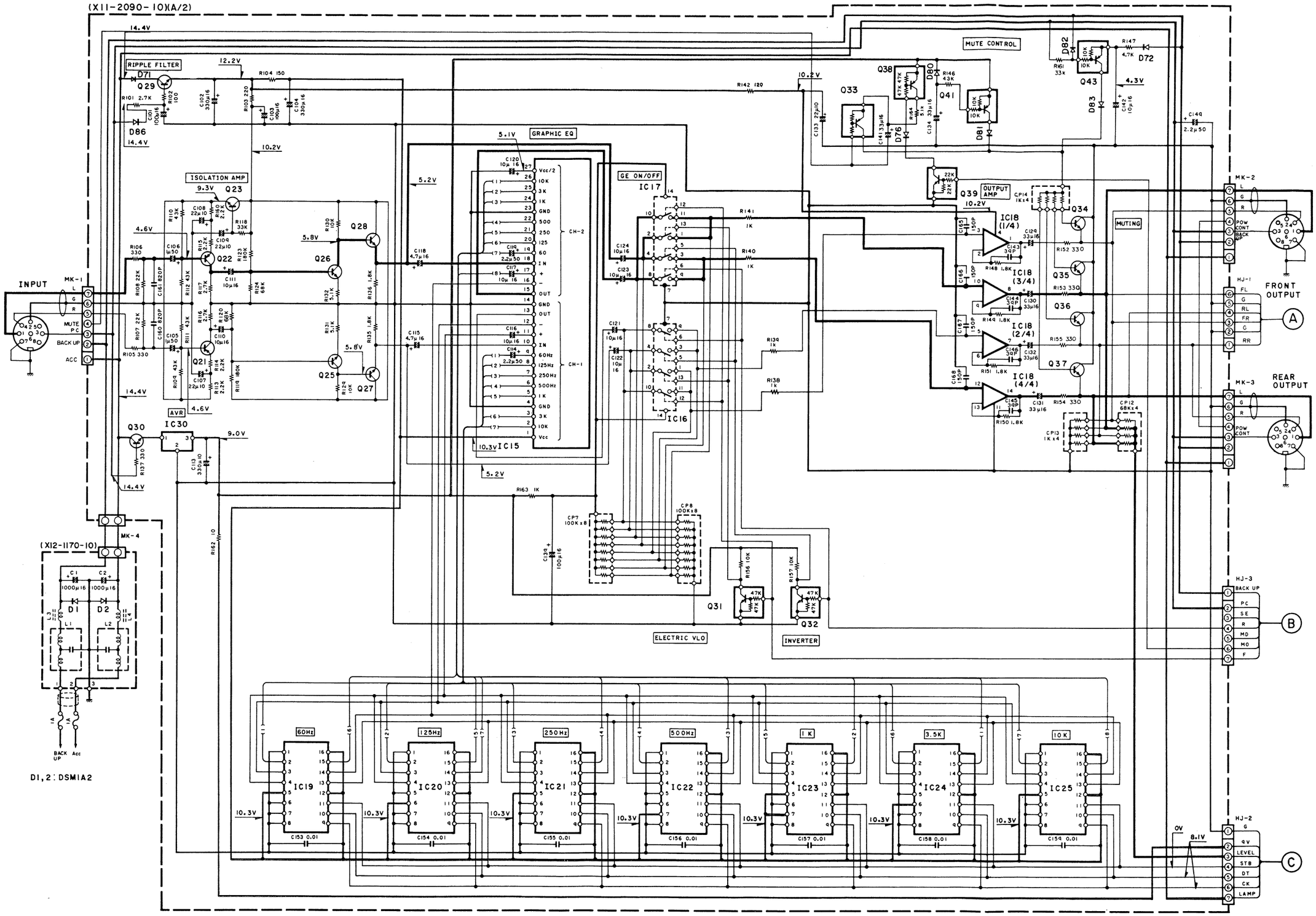
4. A-FLAT



PC BOARD



Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.



D1, 2 : DSM1A2

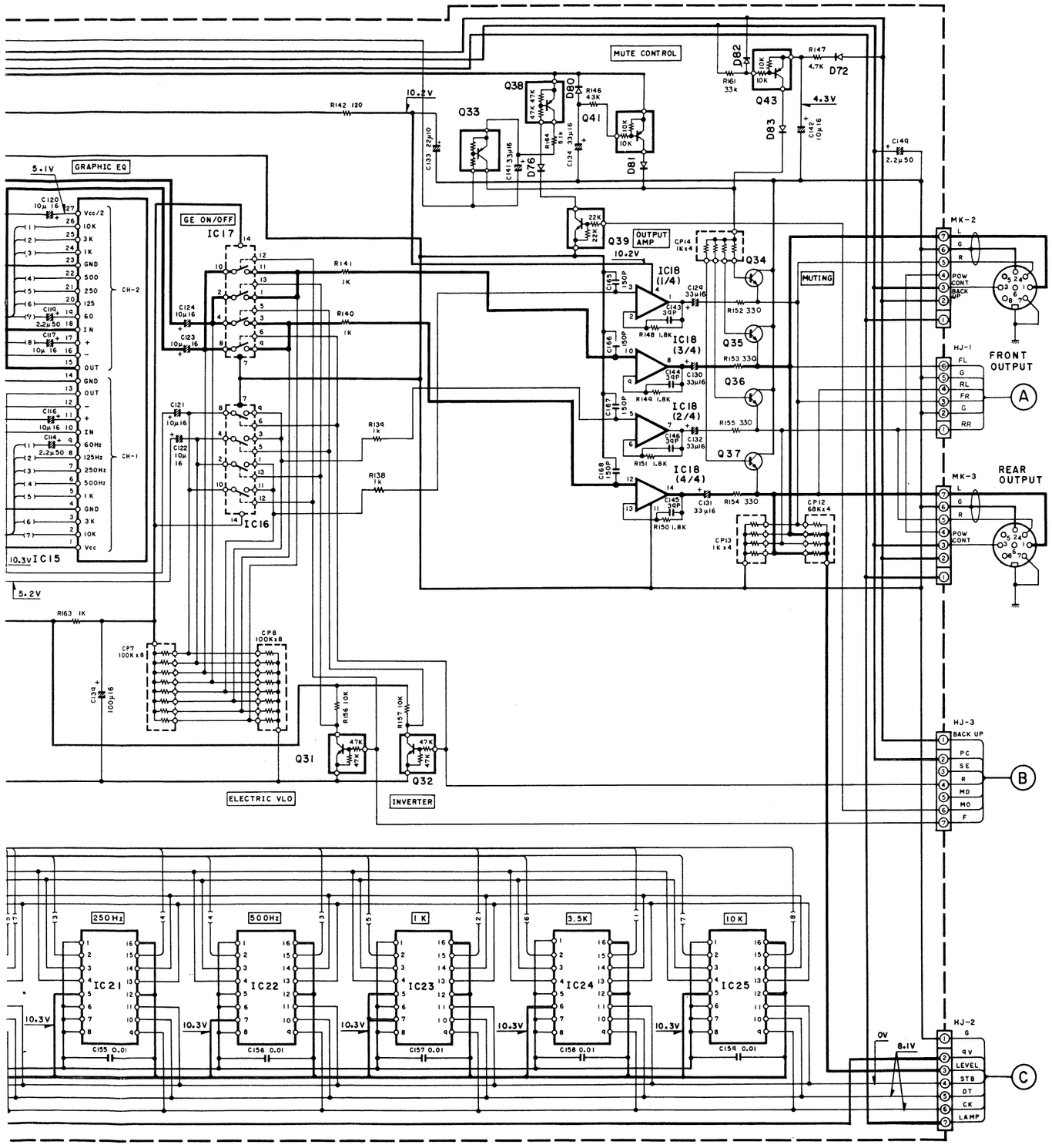
(X11-2090-10)

IC15	: EA1057	IC19~25	: TC9170P	Q21,22	: 2SA992(F,E)	Q33	: DTA143XFF
IC16,17	: μPD4066BG or TC4066BF	IC30	: NJM78L09A	Q23,29,30	: 2SC2003	Q34~37	: 2SD1469F
IC18	: AN6554NS			Q25~28	: 2SC2021F	Q38	: DTA144EFF
				Q31,32	: DTC144EFF	Q39	: DTC124EFF

Q41,43 : DTA114EFF

D71, 72, 76, 80~83 : 1SS176 or GMA01
86

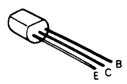
KGC-



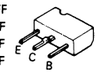
Q21,22 : 2SA992(F,E)
Q23,29,30 : 2SC2003
Q25~28 : 2SC2021F
Q31,32 : DTC144EFF
Q33 : DTA143XFF
Q34~37 : 2SD1469F
Q38 : DTA144EFF
Q39 : DTC124EFF
Q41,43 : DTA114EFF
D71,72,76,80~83 : 1SS176 or GMA01
86

KGC-9400(K)(1/2)

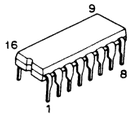
2SA992
2SC2003



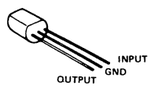
DTA114EFF
DTA143XFF
DTA144EFF
DTC124EFF
DTC144EFF
2SD1469F
2SC2021F



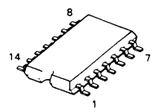
TC9170P



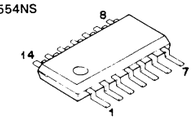
NJM78L09A



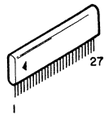
TC4066BF
μPD4066BG



AN6554NS



EA1057



SPECIFICATION

Audio Section

- *Equalizer Action ..... ±12 dB at 60 Hz, 120 Hz, 250 Hz, 500 Hz, 1 kHz, 3.5 kHz, 10 kHz
- *Minimum Input Impedance ..... 10 kohms
- Gain ..... −3 dB
- Output Impedance (Front & Rear) ..... 600 ohms
- *Signal/Noise Ratio
  - (A-Weighted) ..... 97 dB (Front & Rear Off)
  - 93 dB (Front & Rear On)
- T.H.D. ..... 0.02% (Front & Rear Off)
- *Frequency Response ..... 20 Hz - 50,000 Hz ±3 dB

General

Operating Voltage ..... 14.4 V (11 V - 16 V)
Dimensions (W×H×D) ..... 180×25×150 mm
Body Size (W×H×D) ..... 180×25×140 mm
Weight ..... 0.6 kg
(* ...EIA Standard)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui doncerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

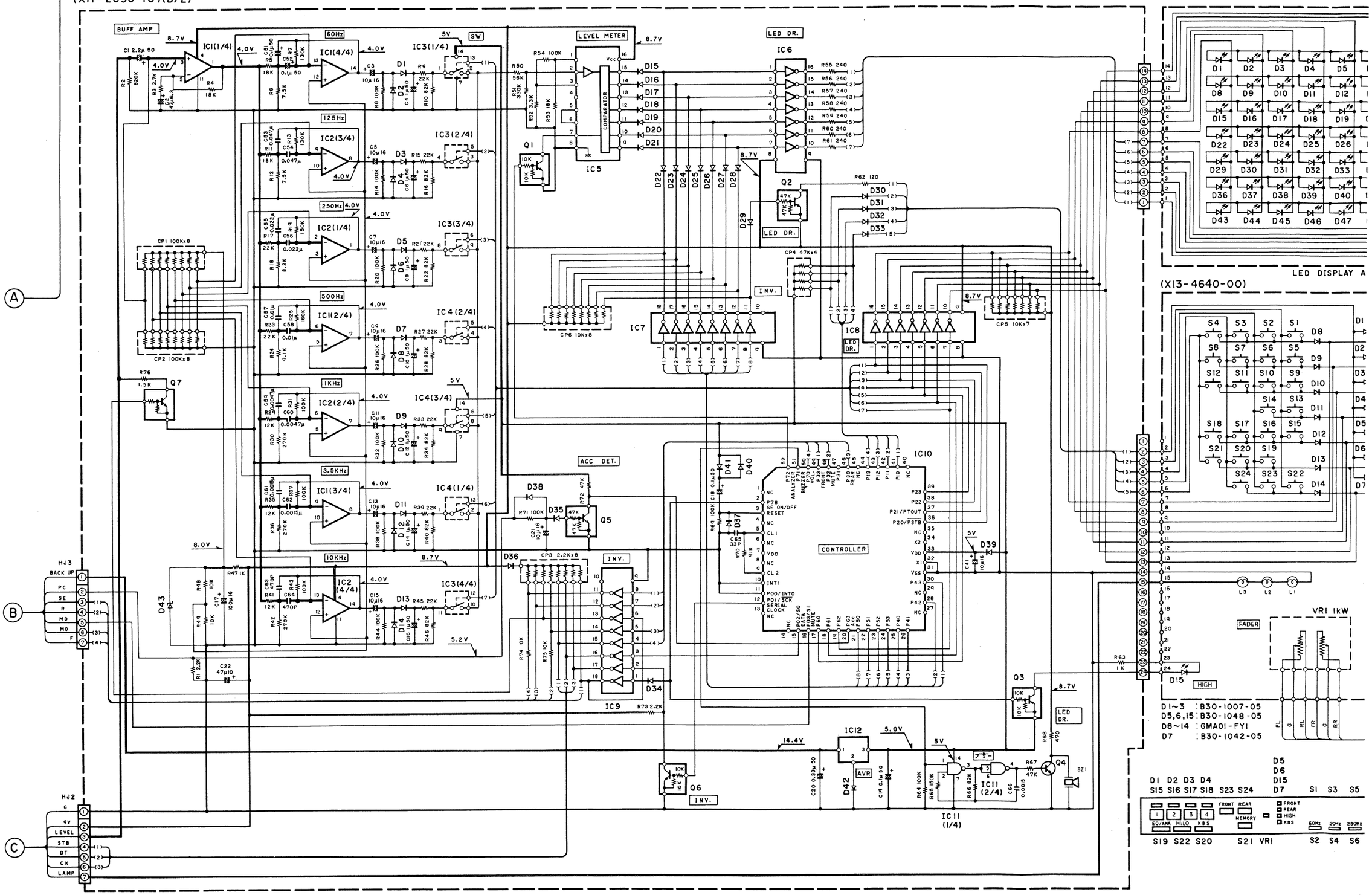
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KGC-9400

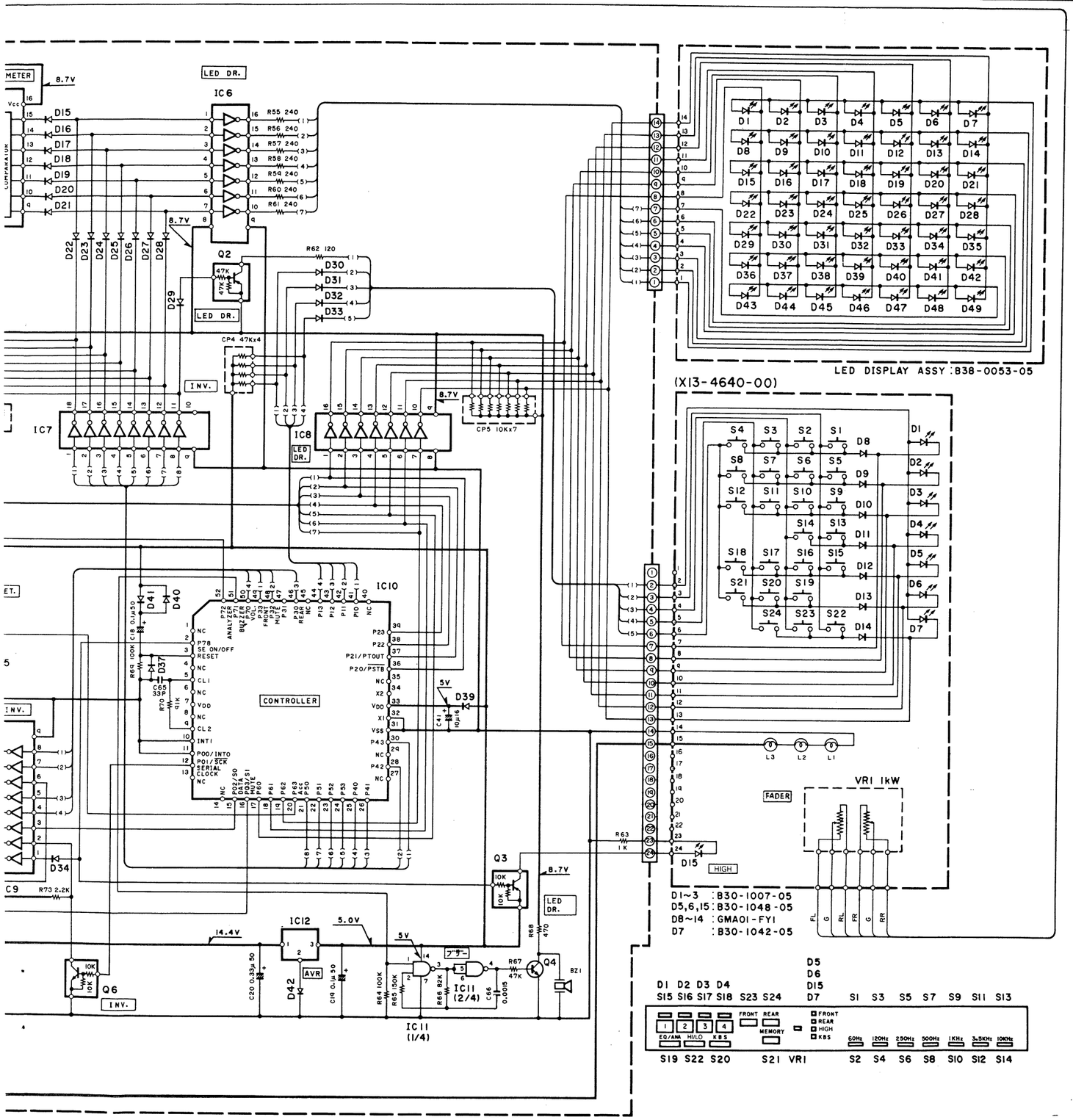
KENWOOD

(X11-2090-10)(B/2)

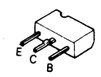


IC1,2	: AN6554NS	IC8	: μPA81C	Q1,6	: DTC114EFF	D1~14	: 1N60
IC3,4	: μPD4066BG	IC10	: μPD7507G-574-00	Q2	: DTA144EFF	D15~34,36~42	: 1SS176 or GMA01
IC5	: AN6879	IC11	: μPD4011BG or TC4011BF	Q3	: DTA114EFF		
IC6	: M54561P or M54560P	IC12	: NJM78L05A	Q4	: 2SC2021F	D35	: MZ5.1J or RD5.1JS(B)
IC7,9	: AN90B21			Q5	: DTC144EFF	D43	: MZ5.6J or RD5.6JS(B)
				Q7	: DTC124EFF		

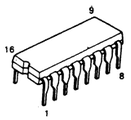
KGC-9400(K)(2/2)



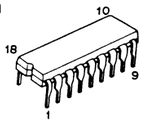
DTA114EFF
DTA144EFF
DTC114EFF
DTC124EFF
DTC144EFF
2SC2021F



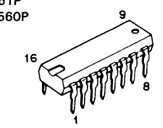
AN6879
μPA81C



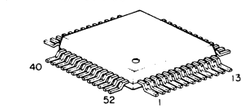
AN90B21



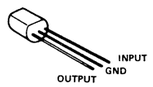
M5461P
M54560P



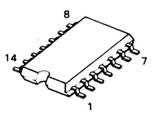
μPD7507G—574-00



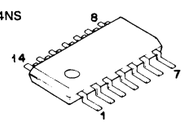
NJM78L05A



TC4011BF
μPD4011BG
μPD4066BG



AN6554NS



Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui doncerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

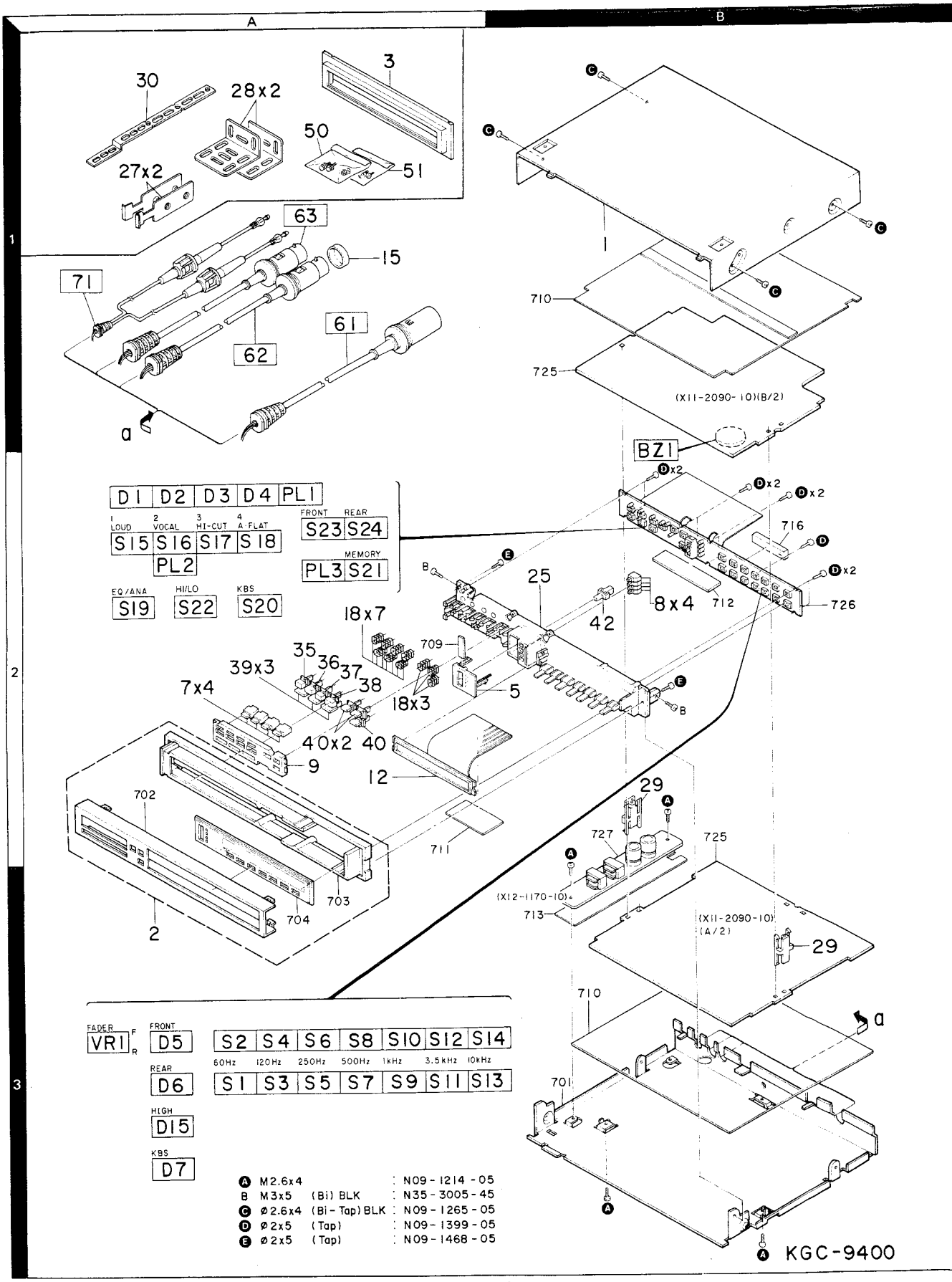
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KGC-9400(K)(2/2)

KGC-9400

KENWOOD

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KGC-9400						
1	1B	*	A01-1367-02	METALLIC CABINET		
2	3A	*	A20-4151-02	PANEL ASSY		
3	1A	*	A21-0469-02	DRESSING PANEL(MOUNTING PANEL)		
5	2B	*	B03-1503-03	DRESSING PLATE(FADER,IND,G.EQ)		
7	2A	*	B19-0334-04	LIGHTING BOARD(1,2,3,4)		
8	2B	*	B19-0335-04	LIGHTING BOARD(FRNT,REAR,H.KBS		
9	2A	*	B19-0336-03	LIGHTING BOARD(PANEL ILLUM)		
12	2A		B38-0053-05	LED DISPLAY ASSY(SLA-5013)G.EQ		
-			B46-0100-00	WARRANTY CARD		
-			B46-0118-03	QUESTIONNAIRE CARD		
-		*	B50-5424-00	INSTRUCTION MANUAL(ENG,FR)		
-		*	B50-5595-00	INSTRUCTION MANUAL(GER,ITAL)		
15	1A		F29-0046-05	INSULATING COVER (DIN COVER)		
18	2A		G01-1466-04	COMPRESSION SPRING(SWITCHES)		
-		*	H01-5288-04	ITEM CARTON CASE		
-		*	H03-0699-04	OUTER CARTON CASE		
-			H10-1738-13	POLYSTYRENE FOAMED FIXTURE		
-			H12-0158-04	PACKING FIXTURE		
-			H25-0117-04	PROTECTION BAG (80X250X0.07)		
-			H25-0162-04	PROTECTION BAG (220X300X0.05)		
-			H25-0192-04	PROTECTION BAG (125X160X0.05)		
-			H25-0226-04	PROTECTION BAG (180X300X0.05)		
25	2B	*	J19-2149-02	UNIT HOLDER(EQUALIZER LEVER SW		
27	1A	*	J21-3575-04	MOUNTING HARDWARE(DRESS PANEL)		
28	1A		J21-3437-04	MOUNTING HARDWARE		
29	2B,3B		J39-0080-03	SPACER (PCB SUPPORT)		
30	1A	*	J54-0060-03	STAY		
35	2A	*	K27-1429-04	KNOB(BUTTON) 1		
36	2A	*	K27-1430-04	KNOB(BUTTON) 2		
37	2A	*	K27-1431-04	KNOB(BUTTON) 3		
38	2A	*	K27-1432-04	KNOB(BUTTON) 4		
39	2A	*	K27-1433-04	KNOB(BUTTON) EQ/ANA,HI/LO,KBS		
40	2A	*	K27-1434-04	KNOB(BUTTON) FRONT,REAR,MEMORY		
42	2B	*	K29-1844-04	KNOB(LEVER) FADER		
50	1A		N99-0076-05	SCREW SET		
51	1A	*	N99-0084-05	SCREW SET		
A	2B,3B		N09-1214-05	TAPTITE SCREW (M2.6X4)		
C	1B		N09-1265-05	TAPTITE SCREW (2.6X4)		
D	2B		N09-1399-05	TAPTITE SCREW		
E	2B	*	N09-1468-05	TAPTITE SCREW (M2X5)		
TONE (X11-2090-10)						
C1			CE04CW1H2R2M	ELECTRO 2.2UF 50WV		
C2			CE04CW0J470M	ELECTRO 47UF 6.3WV		
C3			CE04CW1C100M	ELECTRO 10UF 16WV		
C4			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C5			CE04CW1C100M	ELECTRO 10UF 16WV		
C6			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C7			CE04CW1C100M	ELECTRO 10UF 16WV		
C8			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C9			CE04CW1C100M	ELECTRO 10UF 16WV		

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PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C10			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C11			CE04CW1C100M	ELECTRO 10UF 16WV		
C12			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C13			CE04CW1C100M	ELECTRO 10UF 16WV		
C14			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C15			CE04CW1C100M	ELECTRO 10UF 16WV		
C16			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C17			C90-1263-05	ELECTRO 100UF 16WV		
C18 ,19			CE04CW1H0R1M	ELECTRO 0.1UF 50WV		
C20			CE04CW1HR33M	ELECTRO 0.33UF 50WV		
C21			CE04CW1C100M	ELECTRO 10UF 16WV		
C22			CE04CW1A470M	ELECTRO 47UF 10WV		
C41			CE04CW1C100M	ELECTRO 10UF 16WV		
C51 ,52			CE04CW1H0R1M	ELECTRO 0.1UF 50WV		
C53 ,54			CF92V1H473J	MF 0.047UF J		
C55 ,56			CF92V1H223J	MF 0.022UF J		
C57 ,58			CQ92M1H103J	MYLAR 0.010UF J		
C59 ,60			CQ92M1H472J	MYLAR 4700PF J		
C61 ,62			CQ92M1H152J	MYLAR 1500PF J		
C63 ,64			CK45B1H471K	CERAMIC 470PF K		
C65			CC45CH1H330J	CERAMIC 33PF J		
C66			CQ92M1H152J	MYLAR 1500PF J		
C101			C90-1263-05	ELECTRO 100UF 16WV		
C102			C90-0811-05	ELECTRO 330UF 16WV		
C103			C90-1254-05	ELECTRO 1000UF 16WV		
C104			C90-0811-05	ELECTRO 330UF 16WV		
C105,106			CE04CW1H010M	ELECTRO 1.0UF 50WV		
C107-109			CE04CW1A220M	ELECTRO 22UF 10WV		
C110,111			CE04CW1C100M	ELECTRO 10UF 16WV		
C113			C90-0880-05	ELECTRO 330UF 10WV		
C114			CE04CW1H2R2M	ELECTRO 2.2UF 50WV		
C115			CE04CW1C4R7M	ELECTRO 4.7UF 16WV		
C116,117			CE04CW1C100M	ELECTRO 10UF 16WV		
C118			CE04CW1C4R7M	ELECTRO 4.7UF 16WV		
C119			CE04CW1H2R2M	ELECTRO 2.2UF 50WV		
C120-124			CE04CW1C100M	ELECTRO 10UF 16WV		
C129-132			CE04CW1C330M	ELECTRO 33UF 16WV		
C133			CE04CW1A220M	ELECTRO 22UF 10WV		
C134			CE04CW1C330M	ELECTRO 33UF 16WV		
C139			C90-1263-05	ELECTRO 100UF 16WV		
C141			CE04CW1C330M	ELECTRO 33UF 16WV		
C142			CE04CW1C100M	ELECTRO 10UF 16WV		
C143-146			CC45SL1H390J	CERAMIC 39PF J		
C149			CE04CW1H2R2M	ELECTRO 2.2UF 50WV		
C153-159			C91-0769-05	CERAMIC 0.01UF M		
C160,161			CK45B1H821K	CERAMIC 820PF K		
C165-168			CK45B1H151K	CERAMIC 150PF K		
61	1A		E30-0923-05	CORD WITH DIN CONNECTOR(INPUT)		
62	1A		E30-0924-05	CORD WITH DIN CONNECTOR(FRONT)		
63	1A		E30-0925-05	CORD WITH DIN CONNECTOR(REAR)		
-			J12-0096-05	PIN (RIVET FOR PIEZO-BUZZER)		
CP1 ,2			R90-0294-05	MULTI-COMP 100KX8 J 1/6W		
CP3			R90-0299-05	MULTI-COMP 2.2KX9		

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CP4			R90-0202-05	MULTI-COMP 47KX4 J 1/6W		
CP5			R90-0234-05	MULTI-COMP 10KX7 J 1/6W		
CP6			R90-0229-05	MULTI-COMP 10KX8 J 1/6W		
CP7 ,8			R90-0294-05	MULTI-COMP 100KX8 J 1/6W		
CP12			R90-0298-05	MULTI-COMP 68KX5		
CP13			R90-0297-05	MULTI-COMP 1KX5		
CP14		*	R90-0444-05	MULTI-COMP 1KX4		
BZ1	2B		T95-0021-05	PIEZOELECTRIC BUZZER		
D1 -14			1N60	DIODE		
D15 -34			GMA01	DIODE		
D15 -34			1SS176	DIODE		
D35			MTZ5.1J	ZENER DIODE		
D35			RD5.1JS(B)	ZENER DIODE		
D36 -42			GMA01	DIODE		
D36 -42			1SS176	DIODE		
D43			MTZ5.6J	ZENER DIODE		
D43			RD5.6JS(B)	ZENER DIODE		
D71 ,72			GMA01	DIODE		
D71 ,72			1SS176	DIODE		
D76			GMA01	DIODE		
D76			1SS176	DIODE		
D80 -83			GMA01	DIODE		
D80 -83			1SS176	DIODE		
D86			GMA01	DIODE		
D86			1SS176	DIODE		
IC1 ,2			AN6554NS	IC(OP AMP X4)		
IC3 ,4			UPD4066BG	IC(BILATERAL SWITCH X4)		
IC5			AN6879	IC(7PT LEVEL METER)		
IC6			M54560P	IC(LED DRIVER)		
IC6			M54561P	IC(LED DRIVER)		
IC7			AN90B21	IC(8CH TRANSISTOR ARRAY)		
IC8			UPA81C	IC(LED DRIVER)		
IC9			AN90B21	IC(8CH TRANSISTOR ARRAY)		
IC10			UPD7507G-574-00	IC(MICROPROCESSOR)		
IC11			TC4011BF	IC(NAND X4)		
IC11			UPD4011BG	IC(NAND X4)		
IC12			NJM78L05A	IC(VOLTAGE REGULATOR/ +5V)		
IC15			EA1057	IC(7CH TONE AMP)		
IC16,17			TC4066BF	IC(BILATERAL SWITCH X4)		
IC16,17			UPD4066BG	IC(BILATERAL SWITCH X4)		
IC18			AN6554NS	IC(OP AMP X4)		
IC19-25			TC9170P	IC(13-STEP ELECTRON GRAPHIC EQ		
IC30			NJM78L09A	IC(VOLTAGE REGULATOR/ +9V)		
Q1			DTC114EFF	DIGITAL TRANSISTOR		
Q2			DTA144EFF	DIGITAL TRANSISTOR		
Q3			DTA114EFF	DIGITAL TRANSISTOR		
Q4			2SC2021F	TRANSISTOR		
Q5			DTC144EFF	DIGITAL TRANSISTOR		
Q6			DTC114EFF	DIGITAL TRANSISTOR		
Q7			DTC124EFF	DIGITAL TRANSISTOR		
Q21 ,22			2SA992(F,E)	TRANSISTOR		
Q23			2SC2003	TRANSISTOR		
Q25 -28			2SC2021F	TRANSISTOR		

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Q29 ,30			2SC2003	TRANSISTOR		
Q31 ,32			DTC144EFF	DIGITAL TRANSISTOR		
Q33		*	DTA143XFF	DIGITAL TRANSISTOR		
Q34 -37			2SD1469F	TRANSISTOR		
Q38			DTA144EFF	DIGITAL TRANSISTOR		
Q39			DTC124EFF	DIGITAL TRANSISTOR		
Q41			DTA114EFF	DIGITAL TRANSISTOR		
Q43			DTA114EFF	DIGITAL TRANSISTOR		
FILTER (X12-1170-10)						
C1 ,2			C90-1256-05	ELECTRO 1000UF 16WV		
71	1A	*	E30-0926-05	CORD WITH CONNECTOR(FUSE 1A X2		
L1 ,2			L79-0197-05	LC FILTER		
L3 ,4		*	L33-0299-05	LINE FILTER COIL		
D1 ,2		*	DSM1A2	DIODE		
SWITCH (X13-4640-11)						
D1 -4			B30-1007-05	LED(SLH-34VC3) 1,2,3,4		
D5 ,6		*	B30-1048-05	LED(PY3423S) FRONT,REAR		
D7			B30-1042-05	LED(BR3433S) KBS		
D15		*	B30-1048-05	LED(PY3423S) HIGH		
PL1 -3			B30-1046-05	LAMP (6V 0.065A)		
VR1	3A	*	R13-1001-05	POTENTIOMETER (1KX2)FADER		
S1 -24			S40-1086-05	PUSH SWITCH		
D8 -14			GMA01-FY1	DIODE		
SCREW SET (N99-0076-05)						
-			N09-1416-05	SEMS SCREW (HEX) M5X16		
-			N09-1417-05	SEMS SCREW (HEX) M4X10		
-			N14-0117-05	NUT (FLANGE) M5		
-			N88-3006-46	FLAT HEAD TAPTITE SCREW		
SCREW SET (N99-0084-05)						
-			N09-0335-05	SCREW M5X16		
-			N32-4008-46	FLAT HEAD SCREW M4X8		
-			N44-4016-45	BIND HEAD TAPTITE SCREW(/4X16)		

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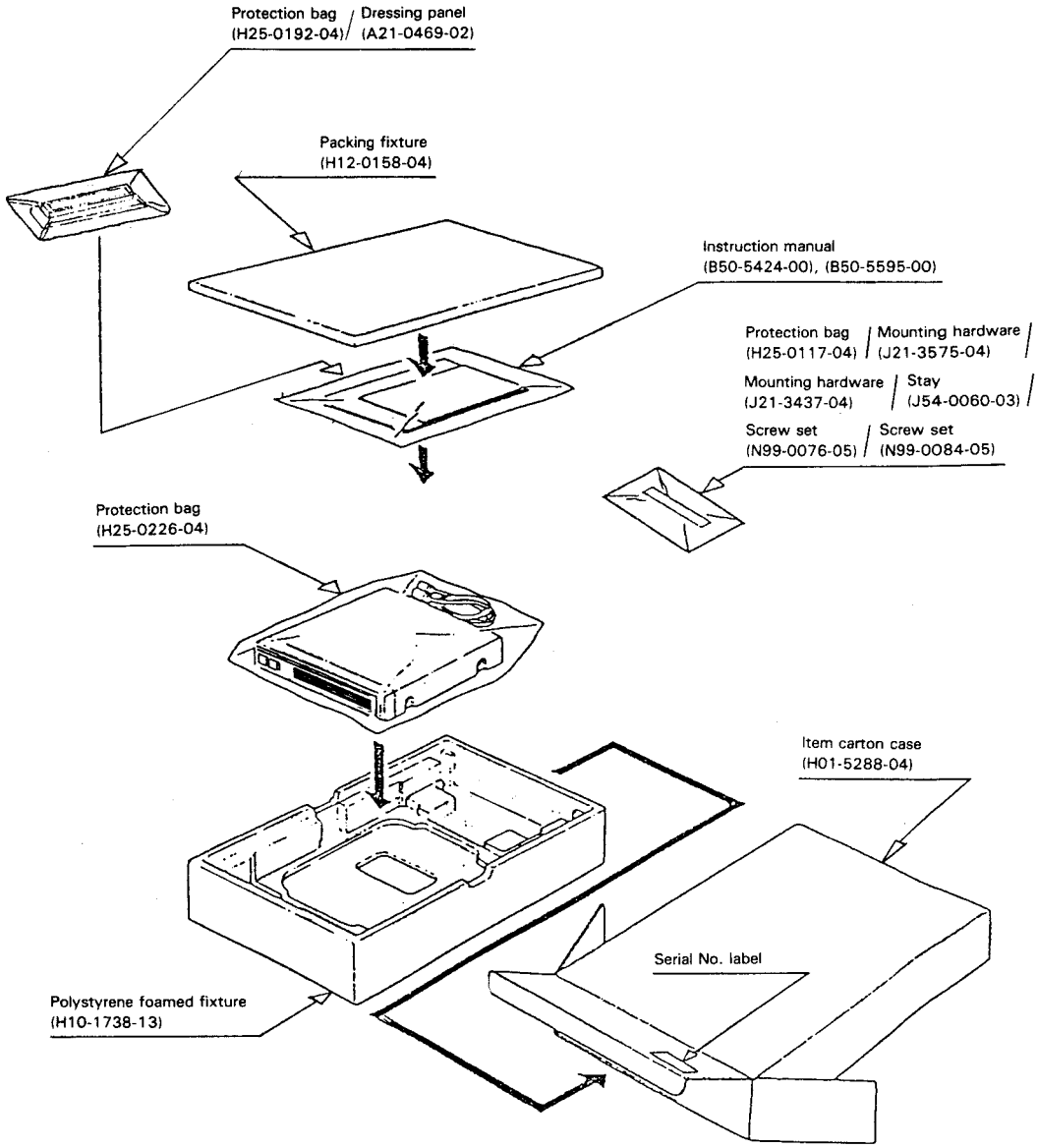
KGC-9400

PACKING



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